



Operator:

Kansas Resources Exploration & Development, LLC
Overland Park, KS

Cartwright #KRI-13

Miami Co., KS
23-18S-21E
API: 121-30804

Spud Date:	11/17/2014	Surface Bit:	9.875"
Surface Casing:	7.0"	Drill Bit:	5.875"
Surface Length:	21.90'	Longstring:	568.70'
Surface Cement:	4 sx	Baffle:	538.70'
Longstring:	2 7/8 EUE - New L/S	Longstring Date:	11/18/2014

Driller's Log

Top	Bottom	Formation	Comments
0	14	Soil & clay	
14	34	Lime	
34	52	Shale	
52	58	Lime	
58	101	Shale	
101	115	Lime	
115	126	Shale	
126	138	Lime	
138	141	Shale	
141	151	Lime	
151	174	Shale	
174	188	Lime	
188	194	Shale	
194	214	Lime	
214	342	Shale	
342	348	Lime	
348	367	Shale	
367	374	Lime	
374	380	Shale	
380	392	Sand	Grey
392	420	Shale	
420	430	Lime	
430	440	Shale	

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440	448	Lime	
448	459	Shale	
459	463	Lime	
463	480	Shale	
480	494	Lime	Good odor, light show to the pit
494	497	Shale	
497	512	Sand	See below
512	518	Sandy Shale	
518	582	Shale	
582		TD	

Coring

Run	Footage	Rec.
1	498-518	20'

Sand Detail

498-501	Laminated sand, no oil
501-502.5	Sand, brown, no oil
502.5-503	White sand
503-507.5	Slightly laminated sand, mostly sand, good oil saturation
507.5-512	Laminated sand, no oil